



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
 Atlanta, GA 30301
 1-877-I-BUY-ZEP (428-9937)
 www.zep.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name MILDEW STAIN REMOVER
Product Use Cleaner.
Product Code 1472
Date of issue 03/29/05 **Supersedes** 05/31/00

Emergency Telephone Numbers For MSDS Information:
 Acuity Specialty Products Group, Inc.
 Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
 INFOTRAC:
 (877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency
 CHEMTREC:
 (800) 424-9300 - All Calls Recorded
 In the District of Columbia (202) 483-7616

Printing date: 03/29/05

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

| Name of Hazardous Ingredients | CAS # | % by Weight | Exposure Limits |
|---|-----------|-------------|--|
| SODIUM HYPOCHLORITE; hypochlorous acid, sodium salt; bleach | 7681-52-9 | 5 - 10 | ACGIH TLV (United States). TWA: 0.5 ppm 8 hour(s). Form: As Cl ₂ STEL: 1 ppm 15 minute(s). Form: As Cl ₂ OSHA PEL 1989 (United States). TWA: 1 ppm 8 hour(s). Form: As Cl ₂ STEL: 3 ppm 15 minute(s). Form: As Cl ₂ |

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.
 Ingestion.

Skin Hazardous in case of skin contact (corrosive). Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Hazardous in case of eye contact (corrosive). Direct contact with the eyes can cause irreversible damage including blindness.

Inhalation Hazardous in case of inhalation. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.

Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach.

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| | |
|----------------------------|----------|
| Health | 3 |
| Fire Hazard | 0 |
| Reactivity | 1 |
| Personal Protection | D |

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures**Flash Point** Not applicable.**Flammable Limits** Not applicable.**Flammability** Not applicable.**Fire Hazard** May emit toxic fumes under fire conditions.**Fire-Fighting Procedures** Use flooding quantities of water. Wear special protective clothing and positive pressure, self-contained breathing apparatus.**Section 6. Accidental Release Measures****Spill Clean up** Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.**Section 7. Handling and Storage****Handling** Do not use with other products. Avoid breathing vapors or spray mists. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reusing. May react or be incompatible with acids (liberates poisonous gas). May react or be incompatible with oxidizing materials. Observe label precautions. Wash thoroughly after handling.**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area. 40°F - 120°F (4.4°C - 49°C). Store between Separate from acids, alkalis, reducing agents and combustibles. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.**Section 8. Exposure Controls, Personal Protection****Personal Protection****Protective Clothing (Pictograms)****Eyes** Splash goggles.**Body** Wear appropriate protective clothing to prevent skin contact. Recommended: Nitrile gloves. Neoprene gloves. Rubber gloves. Chemical resistant apron. Chemical resistant boots.**Respiratory** Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.**Section 9. Physical and Chemical Properties****Physical State** Liquid.**Color** Clear. Greenish-yellow (Light.)**pH** 12.5 - 13.0**Odor** Fresh**Boiling Point** 100°C (212°F)**Vapor Pressure** Not determined.**Specific Gravity** 1.08 (Water = 1)**Vapor Density** Not determined.**Solubility** Easily soluble in cold water, hot water.**Evaporation Rate** 1 compared to Water**VOC (Consumer)** 0.0%**Section 10. Stability and Reactivity****Stability and Reactivity** The product is stable.**Incompatibility** Reactive with organic materials., acids. Do not use with other products. Protect from temperature extremes and direct sunlight.**Hazardous Polymerization** Will not occur.**Hazardous Decomposition Products** Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride (HCl), Chlorine and Phosgene Gas.**Section 11. Toxicological Information****Toxicity to Animals****Sodium Hypochlorite:**

ORAL (LD50): Acute: 8910 mg/kg [Rat].

DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].

Section 12. Ecological Information**Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations****Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.**Waste Stream** Code: D002
Classification: - (Hazardous waste.)
Origin: - (RCRA waste.)

Consult your local or regional authorities.

Section 14. Transport Information**Proper shipping name** None.**DOT Classification** Not a DOT controlled material (United States).**UN number** Not regulated.

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 311: Sodium Hypochlorite RQ 100 lbs. (45.36 kg)

Clean air act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA inventory.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.